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D Engler

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Exokernel: an operating system architecture for application-level resource management - all 76 versions »

DR Engler, MF Kaashoek, JO'Toole Jr - Proceedings of the fifteenth ACM symposium on Operating ..., 1995 - portal.acm.org

... as page-table structures and process abstractions, cannot be ... sometimes have very predictable data access patterns ... will in-clude hardware-specific information. ...

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#### Capability-Based Addressing - all 6 versions »

RS Fabry - Communications, 1974 - portal.acm.org

... memory references to obtain the indirection information. ... shared time-varying multisegment data structure containing ... any particular program or process, we could ... Cited by 268 - Related Articles - Web Search

### The design and implementation of an operating system to supportdistributed multimedia applications - all 13 versions »

IM Leslie, D McAuley, R Black, T Roscoe, P Barham, ... - Selected Areas in Communications, IEEE Journal on, 1996 - leeexplore, leee, ord

... the loss of some of their information content, particularly ... When dealing with time-related data streams in ... the client (either the kernel or a server process). ...

Cited by 313 - Related Articles - Web Search

### Remote authentication and authorization in a distributed data processing system - all 2 versions »

DW Johnson, TA Smith - US Patent 5,560,008, 1996 - Google Patents

... 3. The operating system 11 takes this information and converts it ... Any data read from the disk 2 is kept in ... cation 4 that is running on the processing system 10 ...

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### [PDF] <u>User-level infrastructure for system call interposition: A platform for</u> intrusion detection and ... - all 10 versions »

K Jain, R Sekar - ISOC Network and Distributed System Security, 2000 - philby.ucsd.edu ... one that is specified) or even terminate the process. ... detection techniques that make use of system audit data. ... do not provide all of the information needed for ...

Cited by 69 - Related Articles - View as HTML - Web Search

#### [BOOK] The packer filter: an efficient mechanism for user-level network code all 21 versions »

J Mogul, R Rashid, M Accetta - 1987 - ACM Press New York, NY, USA

... Information provided by the packet filter to programs includes ... packets; and the

used for data-link layer ... the basis of a user-level V IKP server process. ...

Cited by 283 - Related Articles - Web Search - Library Search

### IPDFI Immunity-based intrusion detection system: A general framework - all 8 versions »

D Dasgupta - ... of the 22nd National Information Systems Security Conference, 1999 issrl.cs.memohis.edu

... abuse) after physical, authentication and access control. ... Data Mining Approach for Intrusion Detection. ... In Advances in Neural Information Processing Systems 10 ... Cited by 109 - Related Articles - View as HTML - Web Search

### IPSI A Secure Environment for Untrusted Helper Applications - all 18 versions

I Goldberg, D Wagner, R Thomas, EA Brewer - Proceedings of the 6th USENIX Security Symposium, 1996 - denali.cs.washington.edu

... access to its address space, both code and data. ... 3 The function can then use this information to optionally ... suc- ceed for an unprivileged process anyway, like ... Cited by 262 - Related Articles - View as HTML - Web Search

#### Using Kernel Hypervisors to Secure Applications - all 6 versions »

T Mitchem, R Lu, RO'Brien - Proceedings of the Annual Computer Security Applications ..., 1997 - doi.leeecs.org

... have access to all kernel data structures Loadable ... that merely records additional information about the ... an application accesses during its normal processing. ... Cited by 57 - Related Articles - Web Search

### A secure environment for untrusted helper applications confining the Wily Hacker - all 5 versions »

I Goldberg, D Wagner, R Thomas, EA Brewer - Proceedings of the 6th conference on USENIX Security ..., 1996 - portal.acm.org

... completeaccess toits address space, both code and data. ... call, the framework dispatches

that information to relev ... a system call performed by the traced process. ... Cited by 191 - Related Articles - Web Search

### [воок] Attack Modeling for Information Security and Survivability - all 30 versions »

AP Moore, RJ Ellison, RC Linger - 2001 - dataphone.se

... Internet for leakage 2. Get trusted process to send ... so that the program can use the data contained in ... may simply provide the attacker with information that he ...

Cited by 128 - Related Articles - View as HTML - Web Search - Library Search

#### [PS] The Synthesis Kernel - all 4 versions »

C Pu, H Massalin, J Ioannidis - Computing Systems, 1988 - cse.ogi.edu

... a synthetic machine, while write moves data out from ... eg a port for inter-process communication, also passes ... kind of control, for example, access control lists. ...

Cited by 155 - Related Articles - View as HTML - Web Search

### [PDF] TRON: Process-Specific File Protection for the UNIX Operating System all 5 versions »

A Berman, V Bourassa, E Selbera - Proceedings of the 1995 Winter USENIX Conference, 1995 - seiberg.org

... We have argued that a process-specific, expressive, and easy-to ... Cryptography and Data Security. ... of the Fifth Prince- ton Symposium on Information Sciences and ... Cited by 65 - Related Articles - View as HTML - Web Search

### ... for file and record locking between nodes in a distributed data processing

#### environment maintaining ... - all 2 versions »

LW Henson, AA Shaheen-Gouda, TA Smith - US Patent 5,202,971, 1993 - Google Patents ... system tree structure employing inodes (data structure containing administra -tive information for each ... intercepted and an remote process call (RFC ...

Cited by 71 - Related Articles - Web Search

#### Towards Fault-Tolerant and Secure Agentry - all 8 versions »

FB Schneider - Distributed Algorithms: 11th International Workshop, WDAG'97 ..., 1997 - books.google.com

... might corrupt an agent's program and/or data in a ... are read, write, and execute, and the access control matrix tells ... Information Processing Letters 21, 4 (Oct. ...

Cited by 155 - Related Articles - Web Search

### Mechanism for linking together the files of emulated and host system for access by emulated system ... - all 4 versions »

TS Hirsch, RS Bianchi, RB Perry - US Patent 5,572,711, 1996 - Google Patents .... 20 system marketed by Bull HN Information Systems Inc. ... & U, hardware platform includ

-ing processing unit 58a ... 30 utilizes a plurality of data control structures ... Cited by 21 - Related Articles - Web Search

### Towards a taxonomy of software connectors - all 19 versions »

NR Mehta, N Medvidovic, S Phadke - Proceedings of the 22nd international conference on Software ..., 2000 - doi.leeecomputersociety.org

... In the process, we hope to enrich the body ... perform computations and store the information relevant to ... perform the transfer of control and data among components ... Cited by 266 - Related Articles - Web Search

### Sharing and protection in a single-address-space operating system - all 14 versions »

JS Chase, HM Levy, MJ Feeley, ED Lazowska - ACM Transactions on Computer Systems (TOCS), 1994 - portal.acm.org

... boundary or lifetime of the process that creates ... information is not easily shared, stored, or transmitted. ... tion mechanisms rely on copying data between private ... Cited by 230 - Related Articles - Web Search - Library Search

### [PDF] On Preventing Intrusions by Process Behavior Monitoring - all 14 versions »

R Sekar, T Bowen, M Segal - USENIX Intrusion Detection Workshop, 1999 - usenix.org ... issues system calls that modify the data in the ... each interception, the sys- tem call information is passed ... nisms restrict access rights for each process to the ... Cited by 79 - Related Articles - View as HTML - Web Search

User controlled adaptive flow control for packet networks - all 2 versions > VP Kompella, JP Gray, FD Smith, K Jeffay - US Patent 5,892,754, 1999 - Google Patents ... adaptive strategy. It can be seen that the process of FIG. 5 able on said selected data path, permits the user application to adapt the flow of information ...

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I Foster

R Want

DR Engler, MF Kaashoek, JO'Toole Jr - Proceedings of the fifteenth ACM symposium on Operating ..., 1995 - portal.acm.org

S Tuecke A Hopper

V Falcão

... collectors sometimes have very predictable data access patterns ... we use to separate protection from management. ... be encapsulated within a system call that checks ...

Cited by 762 - Related Articles - Web Search

IPDFI Implementation of the Ficus replicated file system - all 4 versions > RG Guy, JS Heidemann, W Mak, TW Page Jr, GJ Popek, ... - USENIX Conference Proceedings, 1990 - gost.isi.edu

... be- tween the source of the change and the monitor. ... which allows update of any copy of the data, without requiring a particular copyoraminimum number ... System Calls ...

Cited by 233 - Related Articles - View as HTML - Web Search

The active badge location system - all 34 versions »

R Want, A Hopper, V Falcão, J Gibbons - ACM Transactions on Information Systems (TOIS), 1992 - portal acm.org

... techniques, system design issues and applications, particularly relating to telephone call rout- ... reeeiers (eg, voice, data, image), transmitters; H ...

Cited by 1691 - Related Articles - Web Search - Library Search

### A Survey of Design Techniques for System-Level Dynamic Power Management - all 23 versions »

L Benini, A Bogliolo, G De Micheli - Readings in Hardware/Software Co-Design, 2001 books.google.com

... when not in use, while continuing to monitor interrupt requests ... We call network a set of com- municating systems ... controlling the power state of a system and its ... Cited by 322 - Related Articles - Web Search

### Monitoring system activity for OS-directed dynamic power management - all 6 versions »

L Benini, A Bogliolo, S Cavallucci, B Riccó - Proceedings of the 1998 international symposium on Low power ..., 1998 - portal.acm.org

... line can be freely customized by the system designer. ... Be- fore being translated into a call to the ... Monitor- ing high-level readwrite commands wouldn't provide ...

Cited by 61 - Related Articles - Web Search

### A Monitoring Sensor Management System for Grid Environments - all 18 versions »

B Tierney, B Crowley, D Gunter, J Lee, M Thompson - Cluster Computing, 2001 - Springer ... For example, it might run a script to restart the processes, send email to a system administrator, or call a pager ... Overview monitor: This consumer ...

Cited by 116 - Related Articles - Web Search

## Experimental Comparison of Memory Management Policies for NUMA Multiprocessors - all 4 versions »

RP LAROWE JR, CS ELLIS - ACM Transactions on Computer Systems, 1991 - portal.acm.org

... Management Policies for NUMA ... that the placement and movement of code and data are

crucial ... and the nonuniformity becomes less well hidden, system software must ... Cited by 87 - Related Articles - Web Search

### GASS: a data movement and access service for wide area computing systems - all 32 versions »

J Bester, I Foster, C Kesselman, J Tedesco, S ... - Proceedings of the sixth workshop on I/O in parallel and .... 1999 - portal acm.org

... log of program activity, used perhaps to monitor execu- tion ... as the Distributed Parallel Storage System (DPSS) [19 ... with specialized open and close calls (on Unix ...

Cited by 260 - Related Articles - Web Search

### Cellular disco: resource management using virtual clusters on sharedmemory multiprocessors - all 29 versions »

K Govil, D Teodosiu, Y Huang, M Rosenblum - ACM Transactions on Computer Systems (TOCS), 2000 - portal.acm.org

 $\dots$  there would be no choice but to start paging data out to  $\dots$  operating system, it is easy to add in the monitor additional system call functionality for  $\dots$ 

Cited by 78 - Related Articles - Web Search

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BD Noble, M Price, M Satyanarayanan - Computing Systems, 1995 - www-2.cs.cmu.edu ... Second, the system must monitor the availability of ... in the local filesystem; the raster data is fetched at ... The UNIX file system call interface is not currently ... Cited by 174 - Related Articles - View as HTML - Web Search - Library Search

### Cooperative run-time management of adaptive applications and distributed resources - all 6 versions »

C Poellabauer, H Abbasi, K Schwan - Proceedings of the tenth ACM international conference on ..., 2002 - portal.acm.org

 $\dots$  The qsocket() system call allows any application to estab  $\dots$  These resource man- agers monitor resource allocations  $\dots$  of ser- vice, or system data structures and  $\dots$ 

Cited by 38 - Related Articles - Web Search

#### JRes: a resource accounting interface for Java - all 14 versions »

G Czajkowski, T von Eicken - Proceedings of the 13th ACM SIGPLAN conference on Object-..., 1998 - portal.acm.org

 $\dots$  makes it possible for untrusted code to monitor its resource  $\dots$  is not defined here and is very system-specific; in  $\dots$  paid" for network resources if a call to a  $\dots$ 

Cited by 215 - Related Articles - Web Search

### Sharing and protection in a single-address-space operating system - all 14 versions »

JS Chase, HM Levy, MJ Feeley, ED Lazowska - ACM Transactions on Computer Systems (TOCS), 1994 - portai.acm.org

... Systems]: Storage Management; D.4.4 [Operating Systems]: Communications Management; ... While a thread can name all data in the system, it ...

Cited by 230 - Related Articles - Web Search - Library Search

### A taxonomy and survey of grid resource management systems for distributed computing - all 10 versions »

K Krauter, R Buyya, M Maheswaran - Software Practice and Experience, 2002 - doi.wiley.com

... Resource/ Job monitor ... a view to impact on overall Grid system scalability and ... model,

dissemination protocols, namespace organization, data store organization ...

Cited by 212 - Related Articles - Web Search

### Disco: running commodity operating systems on scalable multiprocessors - all 79 versions »

E Bugnion, S Devine, K Govil, M Rosenblum - ACM Transactions on Computer Systems (TOCS), 1997 - portal acm.org

... a trap such as page fault, system call, or bus ... occurs, the processor traps to the monitor that emulates ... support affinity scheduling that increases data locality ... Cited by 202 - Related Articles - Web Search

### DynaMat: a dynamic view management system for data warehouses - all 17 versions »

Y Kotidis, N Roussopoulos - ... ACM SIGMOD international conference on Management of data, 1999 - portal acm.org

... the warehouse administrator from having to monitor and calibrate ... and the update window.

the system will in ... of MR queries which we call Multidimensional Range ...

Cited by 135 - Related Articles - Web Search

### The Legion Resource Management System - all 9 versions »

S Chapin, J Karpovich, A Grimshaw - Proceedings of the 5 thWorkshop on Job Scheduling Strategies ..., 1999 - Springer

... can then use the enact schedule() call to request ... our actual implementation, we have no separate monitor objects; the ... The Legion Resource Management System 173 ... Cited by 152 - Related Articles - Web Search

#### Using interceptors to enhance CORBA - all 6 versions >>

P Narasimban, LE Moser, PM Melliar-Smith - Computer, 1999 - ieeexplore.ieee.org ... Instead, these system calls and library rou- tines must ... enabling interworking between the legacy system and the ... use profiling components to monitor CORBA appli ... Cited by 124 - Related Articles - Web Search

### Condor-G: A Computation Management Agent for Multi-Institutional Grids - all 46 versions >

J Frey, T Tannenbaum, M Livny, I Foster, S Tuecke - Cluster Computing, 2002 - Springer ... a user to construct, sub- mit, and monitor the execution ... These additional system and site policy heterogeneities can ... these concerns via what we call mobile sand ... Cited by 656 - Related Articles - Web Search

#### Performance analysis of a relational data base management system

P Hawthorn, M Stonebraker - ... ACM SIGMOD international conference on Management of data, 1979 - portal.acm.org

... of the user program which "drives" INGRES (terminal monitor rather than ... operating and data management systems consist of calls to a system trace subroutine ...

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K Jain, R Sekar - ISOC Network and Distributed System Security, 2000 - philipy.ucsd.edu ... 3. architecture/OS-specific ways to access system call ar- guments or ... of layouts of system call ar- guments data on a ... be set to before returning control to the ... Cited by 69 - Related Articles - View as HTML - Web Search

### Sharing and protection in a single-address-space operating system - all 14 versions »

JS Chase, HM Levy, MJ Feeley, ED Lazowska - ACM Transactions on Computer Systems (TOCS), 1994 - portal.acm.org

... access to a specific set of pages at a ... application components in independent

that exchange data ... These applications need better control of protection ...

Cited by 230 - Related Articles - Web Search - Library Search

### Exokernel: an operating system architecture for application-level resource management - all 76 versions »

DR Engler, MF Kaashoek, JO'Toole Jr - Proceedings of the fifteenth ACM symposium on Operating ..., 1995 - portal.acm.org

... binding points, and (3) revoking access to resources ... exokemel should export bookkeeping data structures such ... Using this control over resources, an application ... Cited by 762 - Related Articles - Web Search

### IPSI A Secure Environment for Untrusted Helper Applications - all 18 versions

I Goldberg, D Wagner, R Thomas, EA Brewer - Proceedings of the 6th USENIX Security Symposium, 1996 - denali.cs.washington.edu

... access to its address space, both code and data. ... In our security policy, network access must be carefully ... security services we require (X access control is all ...

Cited by 262 - Related Articles - View as HTML - Web Search

#### Using Kernel Hypervisors to Secure Applications - all 6 versions »

T Mitchem, R Lu, RO'Brien - Proceedings of the Annual Computer Security Applications .... 1997 - doi.ieeecs.org

... n Master Kernel Hypervisor: provides communications and control ... that supports kernel loadable modules that have access to the system call data structure. ...

Cited by 57 - Related Articles - Web Search

#### TENEX, a paged time sharing system for the PDP-10 - all 4 versions >> DG Bobrow, JD Burchfiel, DL Murphy, RS Tomlinson - Communications of the ACM, 1972 portal.acm.org

... Another terminal interrupt character, Control-T, is serviced by the ... Data written in a file will be immediately seen ... With unthawed access, a file may have any ... Cited by 111 - Related Articles - Web Search

#### Practical Domain and Type Enforcement for UNIX - all 5 versions »

L Badger, DF Sterne, DL Sherman, KM Walker, SA ... - Proceedings of the 1995 IEEE Symposium on Security and ..., 1995 - doi.ieeecomputersociety.org

... d domain, which has access only to mix-t data. ... leader and the accountant, this policy cannot be ... with a lattice based mandatory access control mechanirm without ...

Cited by 129 - Related Articles - Web Search

# Java Security: From HotJava to Netscape and Beyond - ail 41 versions >> Dean, EW Felten, DS Wallach - Proceedings of the IEEE Symposium on Security and Privacy, 1996 - doi.leeecomputersociety.org

... nor to forge a pointer to data and access it ... and Netscape fail to enforce this policy through a ... Separate access control lists (ACLS)spec- ify where reading and ... Cited by 288 - Related Articles - Web Search

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I Goldberg, D Wagner, R Thomas, EA Brewer - Proceedings of the 6th conference on USENIX Security ..., 1996 - portal.acm.org

... have completeaccess toits address space, both code and data. ... In our security policy,network access must be ... security services we require (X access control is all ... Cited by 191 - Related Articles - Web Search

### Automated detection of vulnerabilities in privileged programs by execution monitoring - all 5 versions .»

C Ko, G Fink, K Levitt - Computer Security Applications Conference, 1994. Proceedings ..., 1994 - ieeexplore.ieee.org

 $\dots$  Section 6 presents some example program policy specifications.  $\dots$  copy data to tmpfile  $\dots$ 

their jobs because of the lim- itations of the access control mechanisms of ... Cited by 183 - Related Articles - Web Search

### [PDF] A Programming Interface for Application-Aware Adaptation in Mobile Computing - all 15 versions »

BD Noble, M Price, M Satyanarayanan - Computing Systems, 1995 - www-2.cs.cmu.edu ... in the local filesystem; the raster data is fetched ... The GRASS applications then access those cached files. ... resources, and depends on the control program instead ...

Cited by 174 - Related Articles - View as HTML - Web Search - Library Search

#### [воок] EROS: a fast capability system - all 26 versions »

JS Shapiro, JM Smith, DJ Farber - 1999 - ACM Press New York, NY, USA ... a new resume capability with each interprocess control trans- fer ... which in turn allows other data structures to ... to address this issue: the weak access right and ...

Cited by 176 - Related Articles - Web Search - Library Search

#### Towards a taxonomy of software connectors - all 19 versions >

NR Mehta, N Medvidovic, S Phadke - Proceedings of the 22nd International conference on Software ..., 2000 - doi.ieeecomputersociety.org

... building blocks of every connector are the primitives for changing the processor program counter (control transfer) and performing memory access (data transfer ... Cited by 266 - Related Articles - Web Search

#### Flexible policy-directed code safety - all 18 versions »

D Evans, A Twyman - Security and Privacy, 1999. Proceedings of the 1999 IEEE ..., 1999 - leeexplore.leee.org

... byte data[]) if (rfile != null) RFileSystem.write (rfile, data.length ... classes so

that the transformed program cannot access this state. ... Policy-enforcing library ...

Cited by 164 - Related Articles - Web Search - Library Search

### Fine-grain access control for securing shared resources incomputational grids - all 5 versions »

ĀR Butt, S Adabala, NH Kapadia, R Figueiredo, JAB ... - Parallel and Distributed Processing Symposium., Proceedings ..., 2002 - leeexplore.leee.org

... is safe except for the explicit cast of a data pointer to ... control and executes the application. ... prevented as they require the ability to freely access the world ...

Cited by 31 - Related Articles - Web Search

#### A Language-Based Approach to Security - all 39 versions »

FB Schneider, G Morrisett, R Harper - Informatics: 10 Years Back, 10 Years Ahead, 2001 - books.google.com

... an operating system might mediate access to files ... executed forces a transfer of control.

thereby facilitating ... cannot corrupt the instructions or data of another ...

Cited by 88 - Related Articles - Web Search

### Towards Fault-Tolerant and Secure Agentry - all 8 versions »

FB Schneider - Distributed Algorithms: 11th International Workshop, WDAG'97 ..., 1997 - books.google.com

... might corrupt an agent's program and/or data in a ... three security policies discussed in this paper— policy (1), discretionary access control, and mandatory ...

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### Remote authentication and authorization in a distributed data processing system - all 2 versions »

DW Johnson, TA Smith - US Patent 5,560,008, 1996 - Google Patents

... Authentication Services In A Distributed Data Processing System ... by these well defined security policies as described ... mode bits are used to control access to the ...

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### The Research on Dynamic Self-Adaptive Network Security Model Based on Mobile Agent - all 5 versions »

J Tao, L Ji-ren, Q Yang - Proceedings of 36 thinternational Conference on Technology ..., 2000 - doi.ieeecomputersociety.org

 $\dots$  the other is collect real runtime data, such as  $\dots$  a file can be detected by system call record.  $\dots$  of monitored device unlawful by access control policy; the other  $\dots$ 

Cited by 9 - Related Articles - Web Search

### The Clouds Distributed Operating System - all 14 versions »

P Dasgupta, RJ LeBlanc, M Ahamad, U Ramachandran - Computer, 1991 - doi.ieeecomputersociety.org

... I Control flow is achieved by threads invoking objects. ... data can simulate files, and they can have read and write invocations defined to access this data. ...

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